GENERAL DESCRIPTION

The fans of the BOX-T series are particularly designed for air extraction, supply or filtration. Their main characteristic is the low noise level which makes them ideal for urban environments (apartments, houses, bar, restaurants, gymnasiums, offices) and industrial sites where the noise is a problem. The low noise level is due to their plenum lined with thick acoustic material, that allows a remarkable reduction of noise level, inevitably generated by the fan. The blower consists of a double inlet forward curved centrifugal fan, belt driven.

CONSTRUCTION

- Box-T frame is with or without extruded aluminium profile and panels in PPGL sheet.
- Plenum lining of the with self-extinguishing technopolymer material.
- Double inlet centrifugal fan with forward curved blades, driven by trapezoidal belts and fixed pitch pulleys.
- Fan and motor supported by single base frame and isolated from the main structure by anti vibration mounts and flexible joint on the outlet.
- Asynchronous three-phase motors according to international standards IEC 60034, IEC 60072, EMC 2004/108/CE, LVD 2006/95/CE, CE marked, IP 55, class F. Suitable for S1 service (continuous working at constant load).

ACCESSORIES

- Weatherproof protection cover.
- Support feet.
- Outlet terminal with guard.
- Setting shutters.
- Setting shutter with filtering section (standard version with filter in polyester with efficiency 90.1%, class EU4).

UPON REQUEST

- Version with three-phase double polarity motor (4/6 pole).
- Asynchronous mono-phase motors according to international standards IEC 60034, IEC 60072, EMC 2004/108/CE, LVD 2006/95/CE, CE marked, IP 55, class F. Suitable for S1 service (continuous working at constant load).
- Panels in aluminium.
- Double skin panels (available thickness: 25 or 50 mm) any possible in extruded AL profile.
- With pre and bag filter.

Maico Ventilation Pvt. Ltd. certifies that the DYNAIR model BOX-T 7/7 to 630 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lₚ: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lₚ: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

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**Performance Box-T**

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**FEG 60**

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- Performance certified in for installation Type B - Free inlet, Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet.
- The sound power levels for installation Type B (free inlet, ducted outlet).

\[ P_v = \sqrt{V/1.3} \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

PERFORMANCE

BOX-T

<table>
<thead>
<tr>
<th>BOX-T 9-7</th>
<th>FEG 67</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

\[ \rho: 1.2 \text{kg/m}^3 \]

\[ H (kW) \]

\[ \eta (\%) \]

\[ Q (m^3/s) \]

\[ P_v (Pa) \]

\[ Q (m^3/h) \]

\[ V (m/s) \]

* Performance certified for installation type B. Free inlet. Ducted outlet. Power rating kW does not include transmission losses.
* Performance ratings do not include the effects of approach velocity.
* The A-weighted sound power levels shown have been calculated per AMCA International Standard 301. Values shown are for inter
  LabA sound power levels for installation Type B. Free inlet, ducted outlet.
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight. Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

- Performance certified is for Installation Type B - Free Inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of accessories/accessories.
  - The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet.
  - Link sound power levels for Installation Type B: free inlet, ducted outlet.

\[ P_v = (V/1.3)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

- Performance certified for installation type B - Free Inlet. Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet.

LwA sound power levels for Installation Type B - Free Inlet, ducted outlet.

\[ P_v = \sqrt{V / 1.3^3} \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density of 1.2 kg/m³ specific weight.

Power supply: 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

Pv = (V/1.3)^1
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight. Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

\[ P = 1.2 \text{kg/m}^3 \]

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**Performance**

**BOX-T**

**FEG 63**

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- Performance certified for installation type B – Free Inlet, Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of apparatuses (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet and outlet.

\[ P_v = \left( \frac{V}{1.3} \right)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

**PERFORMANCE**

**BOX-T 12-12**

![Graph showing performance characteristics](image)

- Performance certified by for Installation type B – Free inlet, Ducted outlet. Power rating does not include transmission losses.
- Performance ratings do not include the effects of accessories.
- The A-rated sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet.
- With sound power levels for Installation Type B: Free inlet, ducted outlet.

\[ P_v = \left( \frac{V}{1.3} \right)^3 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

* Performance certified for installation type B, Free Inlet, Ducted outlet. Power rating kW does not include transmission losses.
* Performance ratings do not include the effects of superheating (exceeding)
* The Ambient sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet/LwA sound power levels for installation Type B free Inlet, ducted outlet.

\[
P_v = \sqrt[3]{V/1.3^2}
\]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density of 1.2 kg/m³ specific weight.

Power supply: 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

**Performance Chart:**

- **Box-T 18-13**
- **FEG 67**

- Performance certified to for installation type B - Free Inlet, Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of appearances (accessories).
- The Axial/Standard sound ratings shown have been calculated per AMCA International Standard 321. Values shown are for inlet.
- With sound power levels for installation Type B; free inlet, ducted outlet.

\[ P_v = (V/1.3)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

\[
\text{Pv} = \left( \frac{V}{1.3} \right)^2
\]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight. Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

\[ P_v = (V/1.3)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

BOX-T 225

\[ \rho: 1.2\text{kg/m}^3 \]

\[ H (\text{kW}) \]

\[ \eta (\%) \]

\[ 36 \quad 38 \quad 41 \quad 46 \quad 44 \quad 37 \quad 26 \]

\[ 2 \quad 1.5 \quad 1 \quad 0.8 \quad 0.6 \quad 0.4 \quad 0.2 \quad 0.1 \]

\[ 80 \quad 76 \quad 68 \quad 70 \quad 85 \quad 65 \]

\[ 65 \]

\[ 3000 \quad 2800 \quad 2600 \quad 2400 \quad 2200 \quad 2000 \quad 1800 \quad 1600 \quad 1400 \quad 1200 \quad 1000 \quad 800 \]

\[ 300 \quad 200 \quad 100 \quad 80 \]

\[ 0.2 \quad 0.3 \quad 0.4 \quad 0.5 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \]

\[ Q (\text{m}^3/\text{s}) \]

\[ Q (\text{m}^3/\text{h}) \]

\[ V (\text{m/s}) \]

\[ P_v (\text{Pa}) \]

- Performance certified is for installation type B - Free Inlet, Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of appendages (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 201. Values shown are for inlet.
- Loud sound power levels for installation Type B; free Inlet, ducted outlet.

\[ P_v = (V/1.3)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

**Lp:** Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

**Lw:** Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

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```
\[ P_v = \sqrt{V/1.3} \]
```
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

$L_p$: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

$L_w$: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

**PERFORMANCE**

**BOX-T 280**

**FEG 53**

\[ \rho = 1.2 \text{kg/m}^3 \]

- Performance certified for installation type B - Free inlet, Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of accessories (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 501. Values shown are for inlet
- Look sound power levels for installation Types B; free inlet, ducted outlet.

\[ P_v = \left( \frac{V}{1.3} \right)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

Performance box-T

- Performance certified for installation type B - FEG 67. Ducted outlet, Power rating kW does not include transmission losses. Performance ratings do not include the effects of accessories (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet.
- Lw(A) sound power levels for installation Type B; free inlet, ducted outlet.
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

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Performance chart for BOX-T 355 and FEG 63.

\[ \rho: 1.2 \text{kg/m}^3 \]

- Performance certified for installation type B - Free inlet, Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet.
- LpA sound power levels for installation Type B; free inlet, ducted outlet.

\[ P_v = (V/1.3)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746, Tolerance +/- 3 dB(A).

Box-T 450

FEG 63

\( P = 1.2 \text{kg/m}^3 \)

\[ P_v = (W/1.3)^2 \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight. Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

\( L_p \): Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

\( L_w \): Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

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**Box-T 500**

\[ \eta (\%) \]

\[ H (kW) \]

\[ L_p \]

\[ L_w \]

---

**FeG 60**

\[ \rho : 1.2 \text{kg/m}^3 \]

\[ p_v = \sqrt{V/1.3} \]
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.

Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance ±3 dB(A).

\[ P = 1.2 \text{kg/m}^3 \]

**PERFORMANCE**

<table>
<thead>
<tr>
<th>BOX-T 560</th>
<th>FEG 60</th>
</tr>
</thead>
</table>

\[ \eta = f(\text{rpm}, P_{\text{in}}, Q) \]

\[ V = (P_{\text{in}})^{1/3} \]

- Performance certified in for installation type B - Free inlet, Ducted outlet. Power rating kW does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The Aweighted sound ratings shown have been calculated per AMCA International Standard 501. Values shown are for inlet.
- Look sound power levels for installation Type B; free inlet, ducted outlet.
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight. Power supply 220-240V/1Ph/50Hz or 380-420V/3Ph/50Hz.

Lp: Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 1.5 meters (for comparative purposes only).

Lw: Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

- Performance certified is for installation type B - Free inlet, Ducted outlet. Power rating kW does not include Inlet/Outlet losses. Performance ratings do not include the effects of accessories.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for Installation Type B; free inlet, ducted outlet.

\[ P_v = V^{1.3} \]
<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>Max. Motor Frame Size</th>
<th>Approx. Total Weight (Kg)</th>
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</table>

All dimensions in mm. Weight with Fan, Std. motor as per below motor frame size & Std. drive set. These dimensions are without any accessories. Any Non-standard sizes with different accessories, weight please consult with your local representative. Dynair reserve the right, while leaving the essential characteristics the same, to modify the data, photograph and anything else shown in the above without prior warning.

**BOX-T 7-7 to 12-12**

**BOX-T 15-15 to 18-18**

**BOX-T 200 to 400**

With extruded AL profile

<table>
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<tr>
<th>Model</th>
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<th>Max. Motor Frame Size</th>
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Without extruded AL profile

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With extruded AL profile
### PERFORMANCE

**BOX-T**

**Dimensions in mm**

- Weight with Fan: Std. motor as per below motor frame size & Std. drive set. These dimensions are without any accessories.
- Any non-standard sizes with different accessories, weight please consult your local representative.
- Dynair reserves the right, while leaving the essential characteristics the same, to modify the data, photograph and anything else shown in the above without prior warning.

#### BOX-T 450 to 630

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<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>Max. Motor Frame Size</th>
<th>Approx. Total Weight (Kg)</th>
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With extruded AL profile

### Accessories

1. Setting Shutter
2. Setting Shutter with Filtering Section
3. Filtering Section

**Type** | A | B | C | D | E | F | G | H | I | J | Max. Motor Frame Size | Approx. Total Weight (Kg) |
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Dimensions in mm